ADMINISTERING PRINTERS (OSA-2)

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ADMINISTERING PRINTERS

OVERVIEW

This document outlines some of the basic AIX system administration functions for administering printers connected to an IBM RS6000 housing the MUNIS financial system. Print Queues, print jobs and printing a file from AIX are addressed.

For information on setting up and configuring printers, see the documents *Host Printing - Parallel (OSC-1)*, *Host Printing - Serial (OSC-2)*, or *Remote Printing (OSC-3)*. For information on setting up printers in MUNIS, see the document *MUNIS System Administration (MSA-1)*. For information on printing IQ reports, see the document *IQ Printing (OSC-4)*. All the documents referenced are in the *MUNIS User Procedures Guide*.

CREATING A PRINT QUEUE

- 1. Login as "**root**" at the console.
- 2. At the \$ prompt type:

smit print (Press Enter.)

This will bring up the Print Spooling screen.

3. Select Add a Print Queue on the Print Spooling screen.

The following sub-screen is displayed:

<u>S</u> ession <u>E</u> dit	<u>C</u> ommands	<u>S</u> ettings	<u>H</u> elp						
Print Spooling Move cursor to desired item and press Enter Start a Print Job Manage Print Jobs									
Move cursor #ATTACHMENT Local remote xstation ascii hpJetDirect file other	to desired it	DESCR Printer A Printer A Printer A Network P File (in	IPTION ttached to ttached to ttached to	ASCII Terminal JetDirect) tory	scroll.				
F1=Help Esc+5=Reset Esc+9=Shell	F2=Refres Esc+6=Com Esc+0=Exi	mand E	3=Cancel sc+7=Edit nter=Do	F4=List Esc+8=Image					

- 4. Select Local. (Press Enter.)
- 5. Select printer type. (Press Enter.)
- 6. Select printer **model**. (Press **Enter**.)
- 7. Select parallel. (Press Enter.)
- 8. Select **ppa0**. (Press **Enter**.)

The following is a sample of the screen that is then displayed.

<u>S</u> ession <u>E</u> dit	Commands Settings	<u>H</u> elp							
Add a Print Queue Type or select values in entry fields. Press Enter AFTER making all desired changes.									
Description	[Entry Fields] IBM 6400 Printer								
Names of NEW pr Epson FX Emu Printronix P IBM Proprint									
Printer connect * PORT number Type of PARA Printer TIME STATE to be	<pre>[p] + [standard] + [60] +# available +</pre>								
F1=Help Esc+5=Reset Esc+9=Shell	F2=Refresh Esc+6=Command Esc+0=Exit	F3=Cancel Esc+7=Edit Enter=Do	dit Esc+8=Image						

- 9. Enter the **new print queue's name** in the field with the corresponding emulation.
- 10. Set the Printer Time Out period to 1000.

CHECKING PRINTER JOB STATUS

The status of print jobs can be checked using the following commands:

- 1. lpstat
- 2. qchk

Use these commands if the printer does not seem to be receiving print jobs from MUNIS.

Command: lpstat

This command will check the status of **ALL** print queues in the AIX system.

A sample print queue status screen displayed using the **lpstat** command is shown below:

Queue Dev	Status	Job Files	User	PP	%	Blks	CP	Rnk
draft_q lp0 fin_q @fin fin_q: printer p		{ remote qu	ieue }					
das_q @hom	ne READY	{ remote qu	ieue }					
das_q print	READY							
print_q lp0	READY							
conden_ lp0	READY							
check_q lp0	READY							

NOTE: When the lpstat command communicates with a remote host, the display occasionally appears to hang while the command waits for a response from the remote machine. The command eventually times out if no connection is established between the two machines.

Command: qchk -P [print queue name]

This command can be used to quickly check the status of only **ONE** print queue. Specify the queue name after the **-P**.

For example at the \$ prompt, type: qchk -P print_q (Press Enter.)

The following screen reflects the result of the above command:

Queue	Dev	Status	Job	Files	User	PP	%	Blks	CP	Rnk	
print_q	lp0	READY									

The following table describes the field names displayed on the **lpstat** and **qchk** screens.

Field Name	Description
Queue	Print queue that will handle the print job.
Dev	Device the queue will print to, i.e., lp0 (printer).
Status	Status of the print queue.
Job	Print job number.
Files	File name the print job will print.
User	User name that submitted the print job.
PP	Number of pages printed.
%	Percentage of the print job completed.
Blks	Number of blocks in the print job.
СР	Number of copies.
Rnk	Where in the print queue the print job is ranked.

DISABLING A PRINT QUEUE

Command: disable [print queue name]

This command is used to deactivate a print queue.

For example, to deactivate the print queue **draft_q** (one of the six print queues listed in the above sample screen) type the following at the \$ prompt:

disable draft q (Press Enter.)

The following screen reflects the execution of the above command:

Queue	Dev	Status	Job	Files	User	PP	%	Blks	CP	Rnk
draft_q	lp0	DOWN								

PRINTING A FILE FROM AIX

Command: lp -d [print queuename] [filename]

For example: to send a file named **motd** (which is the system"message of the day") to the print queue **draft** q at the \$ prompt, type:

Execute the **qchk** command to check the status of the print job. The screen should be similar to the following:

Queue	Dev	Status	Job	Files	User	PP	%	Blks	CP	Rnk
draft_q	1									
		QUEUED	78	/etc/motd	root			1	1	1

Since **draft_q** print queue was disabled in the previous section, the file will not print, but will be queued.

Notice that the print job **motd** submitted:

- Is listed below the print queue status. Even though the **draft_q** is down, the print job was still sent to the queue.
- Is assigned print job number 78.
- Has etc/motd as the file name to print.
- Was submitted by root.
- Has printed no pages.
- Has no percent completed.
- Has one block.
- Has one copy requested.
- Is ranked as the first print job to be printed by this queue.

CANCELING A PRINT JOB

Command: cancel [Job Number]

For example: to cancel the print job submitted in the previous section at the \$ prompt, type:

cancel 78 (Press Enter.)

This will remove the print job from the **draft_q** print queue. Execute the **qchk** command to check the status of the print job. The screen should be similar to the following:

Notice that the print queue **draft_q** is still down, but the print job has been removed. The AIX system will send the following message to notify you of the completed action:

"Job number 78 has been deleted from the queue.<EOT>"

NOTE: Once a print job has started printing, it cannot be canceled by this command.

ENABLING A PRINT QUEUE

Command: enable [print queuename]

For example: to enable the print queue **draft** q, at the \$ prompt, type:

enable draft q (Press Enter.)

The following screen reflects the execution of the above command:

Queue	Dev	Status	Job	Files	User	PP	%	Blks	CP	Rnk
draft_q	lp0 RE	EADY								

draft q is now ready for printing.